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(54) Title: SUBSTITUTED PYRIDINES AND BIPHENYLS AS ANTI-HYPERCHOLESTERINEMIC, ANTI-HYPERLIPOPROTEINEMIC AND ANTI-HYPERGLYCEMIC AGENTS

(57) Abstract

Substituted pyridines of formula (IA) are produced by reaction of suitably substituted pyridylaldehydes with Grignard or Witting reagents, and the resulting products are appropriately reduced. The pyridines of formula (IA) are suitable as active compounds in pharmaceutical products, particularly in pharmaceutical products for the inhibition of cholesterol ester transfer proteins. 3-Heteroalkylaryl-substituted pyridines of formula (IB) are produced from pyridines which are correspondingly protected at the hydroxy group and correspondingly substituted. The compounds of formula (IB) according to the invention are suitable as active compounds in pharmaceutical products, particularly pharmaceutical products for the treatment of hyperlipoproteinemia. Substituted pyridines and benzenes of formula (IC) are produced by procedures disclosed herein, and are useful as active ingredients in pharmaceutical products, particularly pharmaceutical products for inhibition of the glucagon receptor, leading to treatment of glucagon-mediated conditions such as diabetes.

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Interna al Application No PCT/US 97/13248

A. CLASSIF IPC 6	C07D213/30 C07D213/32 C07D403/	06 A61K31/44	•
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B. FIELDS	SEARCHED		
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Name and	mailing address of the ISA	Authorized officer	:
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Interna al Application No PCT/US 97/13248

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Intermitional application No. PCT/US 97/13248

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

1. Claims: 1-10

anti-hypercholesterinemic tetrasubstituted 4-arylpyridines of formula IA having an alkyl group in 3- and/or 5-position which carries a cyclic moiety

2. Claims: 11-20

anti-hyperlipoproteinemic trisubstituted 3-hydroxymethyl-4-arylpyridines of formula IB having an heteroalkyl group in the 5-position which carries a cyclic moiety

3. Claims: 21-47

anti-glucemic tetrasubstituted 4-(het)arylpyridines and benzenes of formulae 1A, 1B, 1C and 1D having a hydroxy, trifluoroacetyl or alkyl group in the 5-position which is substituted by a trifluoromethyl or hydroxy group

. The feature of Fig. , which is $(\omega_{ij})_{ij}$, the subsection for the second $(\omega_{ij})_{ij}$, where $(\omega_{ij})_{ij}$

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